

What is claimed is:

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1. An inter-image operation method comprising the steps of

carrying out an inter-image operation between two or 5 more sets of base image data each representing a distinct base image of an identical object to obtain processed image data therefrom, and

recording history data on past inter-image operations.

2. An inter-image operation method according to Claim 10 1, wherein the history data on the past inter-image operations are recorded in a designated recording medium.

15 3. An inter-image operation method according to Claim 1, wherein the history data on the past inter-image operations are attached to the processed image data obtained through the inter-image operation.

20 4. An inter-image operation method according to Claim 1, wherein the history data on the past inter-image operations are attached to each of said two or more sets of the base image data used for calculating the processed image data.

25 5. An inter-image operation method according to Claim 1, wherein the history data on the past inter-image operations include information identifying the base images each represented by one of said two or more sets of the base image data used for calculating the processed image data.

6. An inter-image operation method according to Claim 5, wherein the history data on the past inter-image operations are recorded in a designated recording medium.

5 7. An inter-image operation method according to Claim 5, wherein the history data on the past inter-image operations are attached to the processed image data obtained through the inter-image operation.

10 8. An inter-image operation method according to Claim 5, wherein the history data on the past inter-image operations are attached to each of said two or more sets of the base image data used for calculating the processed image data.

15 9. An inter-image operation method according to Claim 1, wherein the history data on the past inter-image operations include such data indicating whether or not the processed image data on a certain processed image have already been obtained.

20 10. An inter-image operation method according to Claim 9, wherein the history data on the past inter-image operations are recorded in a designated recording medium.

11. An inter-image operation method according to Claim 9, wherein the history data on the past inter-image operations are attached to the processed image data obtained through the inter-image operation.

25 12. An inter-image operation method according to Claim 9, wherein the history data on the past inter-image

operations are attached to each of said two or more sets of the base image data used for calculating the processed image data.

13. An inter-image operation method according to
5 Claim 9, wherein

the history data on the past inter-image operations include information on recording sites of the processed image data obtained in the past, and wherein

10 a desired set of the processed image data stored at the recording site thereof is fetched and outputted instead of conducting the inter-image operation to recalculate the desired set of the processed image data, if it was found by referring to the history data that the desired set of processed image data had already been obtained.

15 14. An inter-image operation method according to Claim 13, wherein the history data on the past inter-image operations are recorded in a designated recording medium.

16. An inter-image operation method according to
20 Claim 13, wherein the history data on the past inter-image operations are attached to the processed image data obtained through the inter-image operation.

25 16. An inter-image operation method according to
Claim 13, wherein the history data on the past inter-image operations are attached to each of said two or more sets of the base image data used for calculating the processed image data.

17. An inter-image operation method according to
Claim 5, wherein the history data on the past inter-image
operations include such data indicating whether or not the
processed image data on a certain processed image have
5 already been obtained.

18. An inter-image operation method according to
Claim 17, wherein the history data on the past inter-image
operations are recorded in a designated recording medium.

19. An inter-image operation method according to
Claim 17, wherein the history data on the past inter-image
operations are attached to the processed image data
obtained through the inter-image operation.

20. An inter-image operation method according to
Claim 17, wherein the history data on the past inter-image
operations are attached to each of said two or more sets of
the base image data used for calculating the processed
image data.

21. An inter-image operation method according to
Claim 17, wherein

20 the history data on the past inter-image operations
include information on recording sites of the processed
image data obtained in the past, and wherein

25 a desired set of the processed image data stored at
the recording site thereof is fetched and outputted instead
of conducting the inter-image operation to recalculate the
desired set of the processed image data, if it was found by

referring to the history data that the desired set of processed image data had already been obtained.

22. An inter-image operation method according to Claim 21, wherein the history data on the past inter-image operations are recorded in a designated recording medium.

5 23. An inter-image operation method according to Claim 21, wherein the history data on the past inter-image operations are attached to the processed image data obtained through the inter-image operation.

10 24. An inter-image operation method according to Claim 21, wherein the history data on the past inter-image operations are attached to each of said two or more sets of the base image data used for calculating the processed image data.

15 25. An inter-image operation method according to any one of Claims 1-24, wherein the inter-image operation includes a subtraction operation on a pixel-by-pixel basis between said two or more sets of the base image data.

20 26. An inter-image operation method according to any one of Claims 1-24, wherein each of said two or more sets of the base image data is a set of data representing an original image.

27. An inter-image operation method according to any one of Claims 1-24, wherein

25 the inter-image operation includes a subtraction operation on a pixel-by-pixel basis between said two or

more sets of the base image data, and wherein
each of said two or more sets of the base image data
is a set of data representing an original image.

28. An inter-image operation method according to any
5 one of Claims 1-24, wherein the base images each
represented by one of said two or more sets of the base
image data are taken at different points in time.

29. An inter-image operation method according to any
one of Claims 1-24, wherein

10 the inter-image operation includes a subtraction
operation on a pixel-by-pixel basis between said two or
more sets of the base image data, and wherein

15 the base images each represented by one of said two or
more sets of the base image data are taken at different
points in time.

30. An inter-image operation method according to any
one of Claims 1-24, wherein each of said two or more sets
of the base image data represents a radiation image for
medical use.

20 31. An inter-image operation method according to any
one of Claims 1-24, wherein

the inter-image operation includes a subtraction
operation on a pixel-by-pixel basis between said two or
more sets of the base image data, and wherein

25 each of said two or more sets of the base image data
represents a radiation image for medical use.

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32. An inter-image operation apparatus comprising
inter-image operation means which carries out an
inter-image operation between two or more sets of base
image data each representing a distinct base image of an
identical object to obtain processed image data therefrom,
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history data recording means for recording history
data on past inter-image operations.

33. An inter-image operation apparatus according to
Claim 32, wherein the history data recording means records
the history data on the past inter-image operations in a
designated recording medium.

34. An inter-image operation apparatus according to
Claim 32, wherein the history data recording means attaches
the history data on the past inter-image operations to the
processed image data obtained through the inter-image
operation.

35. An inter-image operation apparatus according to
Claim 32, wherein the history data recording means attaches
20 the history data on the past inter-image operations to each
of said two or more sets of the base image data used for
calculating the processed image data.

36. An inter-image operation apparatus according to
Claim 32, wherein the history data on the past inter-image
operations include information identifying the base images
25 each represented by one of said two or more sets of the

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base image data used for calculating the processed image data.

37. An inter-image operation apparatus according to Claim 36, wherein the history data recording means records the history data on the past inter-image operations in a designated recording medium.

38. An inter-image operation apparatus according to Claim 36, wherein the history data recording means attaches the history data on the past inter-image operations to the processed image data obtained through the inter-image operation.

39. An inter-image operation apparatus according to Claim 36, wherein the history data recording means attaches the history data on the past inter-image operations to each of said two or more sets of the base image data used for calculating the processed image data.

40. An inter-image operation apparatus according to Claim 32, wherein the history data on the past inter-image operations include such data indicating whether or not the processed image data on a certain processed image have already been obtained.

41. An inter-image operation apparatus according to Claim 40, wherein the history data recording means records the history data on the past inter-image operations in a designated recording medium.

42. An inter-image operation apparatus according to

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Claim 40, wherein the history data recording means attaches the history data on the past inter-image operations to the processed image data obtained through the inter-image operation.

5 43. An inter-image operation apparatus according to Claim 40, wherein the history data recording means attaches the history data on the past inter-image operations to each of said two or more sets of the base image data used for calculating the processed image data.

10 44. An inter-image operation apparatus according to Claim 40, wherein

15 the history data on the past inter-image operations include information on recording sites of the processed image data obtained in the past, and wherein

20 a desired set of the processed image data stored at the recording site thereof is fetched and outputted instead of conducting the inter-image operation to recalculate the desired set of the processed image data, if the inter-image operation means found by referring to the history data, that the desired set of processed image data had already been obtained.

25 45. An inter-image operation apparatus according to Claim 44, wherein the history data recording means records the history data on the past inter-image operations in a designated recording medium.

46. An inter-image operation apparatus according to

Claim 44, wherein the history data recording means attaches the history data on the past inter-image operations to the processed image data obtained through the inter-image operation.

5 47. An inter-image operation apparatus according to Claim 44, wherein the history data recording means attaches the history data on the past inter-image operations to each of said two or more sets of the base image data used for calculating the processed image data.

10 48. An inter-image operation apparatus according to Claim 36, wherein the history data on the past inter-image operations include such data indicating whether or not the processed image data on a certain processed image have already been obtained.

15 49. An inter-image operation apparatus according to Claim 48, wherein the history data recording means records the history data on the past inter-image operations in a designated recording medium.

20 50. An inter-image operation apparatus according to Claim 48, wherein the history data recording means attaches the history data on the past inter-image operations to the processed image data obtained through the inter-image operation.

25 51. An inter-image operation apparatus according to Claim 48, wherein the history data recording means attaches the history data on the past inter-image operations to each

of said two or more sets of the base image data used for calculating the processed image data.

52. An inter-image operation apparatus according to Claim 48, wherein

5 the history data on the past inter-image operations include information on recording sites of the processed image data obtained in the past, and wherein

10 a desired set of the processed image data stored at the recording site thereof is fetched and outputted instead of conducting the inter-image operation to recalculate the desired set of the processed image data, if the inter-image operation means found by referring to the history data that the desired set of processed image data had already been obtained.

15 53. An inter-image operation apparatus according to Claim 52, wherein the history data recording means records the history data on the past inter-image operations in a designated recording medium.

20 54. An inter-image operation apparatus according to Claim 52, wherein the history data recording means attaches the history data on the past inter-image operations to the processed image data obtained through the inter-image operation.

25 55. An inter-image operation apparatus according to Claim 52, wherein the history data recording means attaches the history data on the past inter-image operations to each

of said two or more sets of the base image data used for calculating the processed image data.

56. An inter-image operation apparatus according to any one of Claims 32-55, wherein the inter-image operation includes a subtraction operation on a pixel-by-pixel basis between said two or more sets of the base image data.

57. An inter-image operation apparatus according to any one of Claims 32-55, wherein each of said two or more sets of the base image data is a set of data representing an original image.

58. An inter-image operation apparatus according to any one of Claims 32-55, wherein

the inter-image operation includes a subtraction operation on a pixel-by-pixel basis between said two or more sets of the base image data, and wherein

each of said two or more sets of the base image data is a set of data representing an original image.

59. An inter-image operation apparatus according to any one of Claims 32-55, wherein the base images each represented by one of said two or more sets of the base image data are taken at different points in time.

60. An inter-image operation apparatus according to any one of Claims 32-55, wherein

the inter-image operation includes a subtraction operation on a pixel-by-pixel basis between said two or more sets of the base image data, and wherein

the base images each represented by one of said two or more sets of the base image data are taken at different points in time.

61. An inter-image operation apparatus according to
any one of Claims 32-55, wherein each of said two or more
sets of the base image data represents a radiation image
for medical use.

62. An inter-image operation apparatus according to
any one of Claims 32-55, wherein

the inter-image operation includes a subtraction operation on a pixel-by-pixel basis between said two or more sets of the base image data, and wherein

each of said two or more sets of the base image data represents a radiation image for medical use.

15 63. An image display method comprising the steps of
displaying an image on a prescribed image display,
said image being a processed image represented by processed
image data obtained by carrying out an inter-image
operation between two or more sets of base image data each
20 representing a distinct base image of an identical object,
and

displaying information identifying the two or more base images each represented by one of said two or more sets of the base image data together with the processed image.

64. An image display apparatus comprising

means for displaying an image on a prescribed image display, said image being a processed image represented by processed image data obtained by carrying out an inter-image operation between two or more sets of base image data each representing a distinct base image of an identical object, and

means for displaying information identifying the two or more base images each represented by one of said two or more sets of the base image data together with the processed image.